

## FIRE PROTECTION AND SMOKE EXTRACT SYSTEMS



*Dorotheenblöcke, Berlin, Germany*

Fire protection and smoke extract are important issues in a comprehensive building design. The prime objective in the event of a fire is to avert danger, i.e. to save lives and to protect property.

This is why TROX gives functional safety top priority in their fire protection and smoke extract systems. TROX components and systems complement each other perfectly such that they fulfil their function reliably in the event of a fire. TROX offers network solutions that link fire dampers and smoke control dampers, which are SIL2-certified and provide overall safety.

TROX fire dampers shut off ducts in the event of a fire and prevent the spreading of fire through ducting. They meet the high requirements of EN 15650 and are CE certified. They are available for various state-of-the-art types of installation such as with a fire batt or flexible ceiling joint.

TROX smoke control dampers in mechanical smoke extract systems are used in one or in several fire compartments to remove hot fire gases and to let in additional supply air. The CE marking according to the Construction Products Regulation means that the product can be universally used in all European countries and for different application situations.

TROXNETCOM communication systems allow for TROX fire dampers to be integrated easily and safely with a BMS or with the X-CUBE air handling unit.

TROX duct smoke detectors increase safety levels since they detect smoke independent of the temperature at a very early stage and trigger the closure of the fire dampers.

TROX smoke exhaust fans effectively remove hazardous hot fire smoke from buildings. The X-FANS product range includes many different fans which (depending on the model in question) are available for temperature

ranges from 200 to 600 °C and with an exposure resistance of up to 120 minutes. X-FANS are tested to EN ISO 12101-3, carry the CE mark, and come with building inspectorate approval.

Comprehensive system solutions from TROX ensure functional reliability. Fire and smoke are detected at an early stage such that their spread can be prevented, and people can leave the building on smoke free escape routes.



TROXNETCOM links fire protection and smoke extract components to a system and allows for central BMS connection.



TROX fire dampers with CE marking and declaration of performance according to the CPR.

TROX duct smoke detector RM-O-M Multi functional duct smoke detector with volume flow rate and contamination monitoring.



TROX smoke control dampers EK-EU, CE certified according to the CPR, still fully open or close after being exposed to higher temperatures (approx. 800 °C) for 25 minutes.



X-FANS smoke exhaust fans are available for 200 °C, 300 °C, 400 °C and 600 °C.

Various constructions:

- Roof fans
- Axial fans
- Centrifugal fans
- Wall-mounted fans